FORM PTO-1449 (REV. 7-85) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

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ATTY. DOCKET NO. S-31514A
APPLICATION NO. 09/928,614
APPLICANT ZHONG et al
FILING DATE: 08/13/2001
Confirmation No. 7523
Group 1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
RK	A	4,940,838	7/10/90	Schilperoort et al.			
	B	4,945,050	7/31/90	Sanford et al.			
	C	5,164,310	11/17/92	Smith et al.			
	D	5,451,513	9/19/95	Maliga and Maliga			
	E	5,545,817	8/13/96	McBride and Stalker			
	F	5,545,818	8/13/96	McBride and Maliga			
	G	5,591,615	1/7/97	Oester et al.			
	H	5,591,616	1/7/97	Hiei and Komari			
	I	5,767,368	6/16/98	Zhong and Sticklen			
	J	5,767,373	6/16/98	Ward and Volrath			
	K	5,767,378	6/16/98	Bojsen et al.			
	L	5,777,200	7/7/98	Ryals et al.			
	M	5,939,602	8/17/99	Volrath et al.			
	N	5,994,629	11/30/99	Bojsen et al.			
	O	6,023,012	2/8/00	Volrath et al.			
	P	6,084,155	6/4/00	Volrath et al.			
RK	Q	6,140,555	10/31/00	Reichert and Rudraswamy			

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		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
RK	A1	EP 0 504,869	9/23/92	EP			☐	☐
	B1	EP 0 604 662	6/7/94	EP			☐	☐
	C1	EP 0 723 393 B1	7/31/96	EP			☐	☐
	D1	EP 0 301 749 A2	2/1/89	EP			☐	☐
	E1	WO 91/13159	9/5/91	WIPO			☐	☐
	F1	WO 95/16783	6/22/95	WIPO			☐	☐
	G1	WO 95/34659	12/21/95	WIPO			☐	☐
	H1	WO 00/20612	4/13/00	WIPO			☐	☐
RK	I1	WO 99/15003	4/1/1999	WIPO			☐	☐

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Russell Kallis	8/20/04

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RK	J1	WO 99/05265	2/4/99	WIPO			☐	☐
RK	K1	Japanese Patent Appl. (Kokai) No. 4-222527	12/8/2002	JPO			☐	☐

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RK	A2	An, et al, *New cloning vehicles for transformation of higher plants* *European Molecular Biology Organization Journal*, Vol. 4 (2), (1985) pp. 277-284
	B2	Aragao, F. J. L. and E. L. Rech, *Morphological factors influencing recovery of transgenic bean plants (Phaseolus vulgaris L.) of a Carioca cultivar* *International Journal of Plant Sciences*, Vol. 158(2), (1997) 157-163.
	C2	Babu, P., Chawla, H.S., *In vitro regeneration and Agrobacterium mediated transformation in gladiolus* *Journal of Horticultural Science & Biotechnology*, Vol. 75(4), (2000) pp. 400-404
	D2	Barwale et al., *Screening of Glycine max and Glycine soja genotypes for multiple shoot formation at the cotyledonary node* *Theoretical and Applied Genetics*, Vol. 72 (1986), pp. 423-428
	E2	Chee et al, *Transformation of soybean (Glycine max) by infecting germinating seeds with Agrobacterium tumefaciens* *Plant Physiology*, Vol. 91 (1989), pp. 1212-1218.
	F2	Chilton, M-D, *Agrobacterium gene transfer: progress on a "poor man's vector" for maize* Proceedings of the National Academy of Sciences, USA, Vol. 90(8), (April 15, 1993) pp. 3119-20.
	G2	Christou, P., *Genetic transformation of crop plants using microprojectile bombardment* *Plant Journal*, Vol. 2(3), (1992) pp. 275-281
	H2	Crossway et al, *Integration of foreign DNA following microinjection of tobacco mesophyll protoplasts* *Molecular Genetics and Genomics*, Vol. 202 (1986), pp. 179-185
	I2	D'Halluin et al., *Transformation of sugarbeet (Beta vulgaris L.) and evaluation of herbicide resistance in transgenic plants* *Bio/ Technology*, Vol. 10 (1992), pp. 309-314.
	J2	Elliot et al. "Regeneration of Normal and Transformed Sugar Beet: The Role of N^6-Benzyladenine." in: eds. Kaminek et al., *Proceedings of the International Symposium on Physiology and Biochemistry of Cytokinins in Plants*, (SPB Publishing, The Hague, 1992), pages 329-334
RK	K2	Fromm et al, *Expression of genes transferred into monocot and dicot plant cells by electroporation* *Proceedings of the National Academy of Sciences*, US, Vol. 82 (September, 1985), pp. 5824-5828

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RK	L2	Fry et al., "Genotype-Independent Transformation of Sugarbeet Using Agrobacterium Tumefaciens" Abstract # 384 in *Molecular Biology of Plant Growth and Development, Third International Congress of the International Society for Plant Molecular Biology* (R. B. Hallick, editor, Tuscon, Arizona, USA 1991)
	M2	Goldschmidt-Clermont, M., *Transgenic expression of aminoglycoside adenine transferase in the chloroplast: a selectable marker for site-directed transformation of Chlamydomonas* *Nucleic Acids Research*, Vol. 19 (1991), pp. 4083-4089.
	N2	Gonsalves et al., *Somatic embryogenesis and regeneration from cotyledon explants of six squash cultivars* *HortScience*, Vol. 30, (1995) 1295-1297.
	O2	Haldrup, et al., *The xylose isomerase gene from Thermoanaerobacterium thermosulfurogenes allows effective selection of transgenic plant cells using D-xylose as the selection agent* *Plant Molecular Biology*, Vol. 37 (1998), p. 287-296
	P2	Hall et al, *A high efficiency technique for the generation of transgenic sugar beets from stomatal guard cells* *Nature Biotechnology*, Vol. 14 (September, 1996) pp. 1133-1138
	Q2	Hall et al,.*Computer-Assisted Identification of Protoplasts Responsible for Rave Division Events Reveals Guard-Cell Totipotency* *Plant Physiology*, Vol. 107(4) (1995), pp. 1379-86
	R2	Harms et. al, *Clonal Propagation in vitro of red beet (Beta vulgaris ssp.) by Multiple Adventitious Shoot Formation* *Plant Cell Tissue Organ Culture* 2, 93-102 (1983)
	S2	Herrera-Estrella et al, *Expression of chimaeric genes transfered into plant cells using a Ti-plasmid-derived vector* *Nature*, Vol. 303 (May 19, 1983), pp. 209-213
	T2	Herrera-Estrella et al,.*Chimeric genes as dominant selectable markers in plant cells* *European Molecular Biology Organization Journal*, Vol. 2(6) (1983), pp. 987-995
	U2	Herrera-Estrella et al., "*Agrobacterium* as a vector system for the introduction of genes into plants," in: Ed. Dodds, John H., *Plant Genetic Engineering* (New York, Cambridge University Press, 1985), pp. 61-93
	V2	Hood et al, *The hypervirulence of Agrobacterium tumefaciens A281 is encoded in a region of pTiBoS42 outside of T-DNA* *Journal of Bacteriology*, Vol. 168 (1986), pp. 1291-1301
	W2	Hood et al,.*Restriction endonuclease map of pTiBoS42, a potential Ti-plasmid vector for genetic engineering of plants* *Bio/Technology*, Vol. 2 (August, 1984), pp. 702-709.
RK	X2	Hooykaas et al, *Transformation of Plant Cells via Agrobacterium* *Plant Molecular Biology*, Vol. 13, (1989), pp. 327-336

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RK	Y2	Horch et al, *Inheritance of Functional Foreign Genes in Plants* *Science*, Vol. 223, (1984) pp. 496
	A3	Ishida et al, *High efficiency transformation of maize (Zea mays L) mediated by Agrobacterium tumefaciens* *Nature Biotechnology*, Vol. 14:7 (June, 1996), pp. 745-750
	B3	Jefferson et al, *ß-Glucuronidase from Escherichia coli as a Gene Fusion Marker* *Proceedings of the National Academy of Sciences, US*, Vol. 83 (November, 1986), pp. 8447-8451.
	C3	Jefferson, R.A., *Assaying Chimeric Genes in Plants: The GUS Gene Fusion System* *Plant Molecular Biology Reporter* Vol. 5(4), (1987) pp. 387-405
	D3	Jin et al, *Genes responsible for the supervirulence phenotype of* Agrobacterium tumefaciens *A281* Journal of Bacteriology, Vol. 169 (1987), pp. 4417-4425
	E3	Komari et al, *Transformation of cultural cells of Chenopodium quinoa by binary vectors that carry a fragment of DNA from the virulent region of pTiBo 542* *Plant Cell Reports*, Vol. 9, (1990) pp. 303-306
	F3	Komari et al. *Physical and functional map of supervirulent Agrobacterium tumefaciens tumor-inducing plasmid pTiBo542* Journal of Bacteriology, Vol. 166(1) (Apr 1986) pp. 88-94
	G3	Komari et al., *Vectors carrying two separate T-DNAs for co-transformation of higher plants mediated by Agrobacterium tumefaciens and segregation of transformants free from selection markers* *The Plant Journal*, Vol. 10(1) (Jul 1996), pp. 165-174
	H3	Komari, T., *Transformation of callus cultures of nine plant species mediated by Agrobacterium* *Plant Science*, Vol. 60(2) (1989), pp. 223-229
	I3	Kotowska et al., *Preliminary Report on Epidermis Culture of Sugar Beet* *Bulletin of the Polish Academy of Sciences, Vol.* 32, 11-12 (1984)
	J3	Kotowska, *Morphogenetical capacities of inflorescence shoot tissues of sugar beet in in vitro cultures: II. Division and differentiation of mature tissues cells* *Beitraege-zur-Biologie-der-Pflanzen*, Vol. 67 (2) (1992 (1993)), pp. 209-223 [Summary in English]
	K3	Krens et al., *The effect of exogenously-applied phytohormones on gene transfer efficiency in sugarbeet (Beta vulgaris L.)* *Plant Science*, Vol. 116, (1996) pp. 97-106
RK	L3	Kubo et al, *Nucleotide sequence of the chloroplast rrn16-trnV-rps12-ndhB in sugar beet* GenBank Accession number AB032426 [online], [retrieved on 2002-9-25]. Retrieved from the Internet:<URL: http://www.ncbi.nlm.nih.gov/entrez/>

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RK	M3	Lindsey, K. and Gallois, P., *Transformation of Sugarbeet (Beta vulgaris) by Agrobacterium tumefaciens* *Journal of Experimental Botany*, Vol. 41(226) (1990), pp. 529-536
	N3	Lindsey et.al, "Transformation in Sugar Beet (*Beta vulgaris L.*)," in *Biotechnology in Agriculture and Forestry, Vol. 23, Plant Protoplasts and Genetic Engineering IV* (Y. P. S. Bajaj, Ed., Springer-Verlag, Berlin, 1993) pp. 147-169
	O3	McBride et al, *Controlled expression of plastid transgenes in plants based on a nuclear DNA-encoded and plastid-targeted T7 RNA polymerase* *Proceedings of the National Academy of Sciences*, US, Vol. 91 (1994 Jul 19), pp. 7301-7305.
	P3	McCabe et al, *Stable transformation of soybean (Glycine max) by Particle Acceleration* *Bio/Technology*, Vol. 6, (August, 1988), pp. 923-926
	Q3	Moloney et al., *Transformation and Foreign Gene Expression* *Monographs on the Theoretical and Applied Genetics*, Vol. 19, (1993) pp. 148-167
	R3	Ni et al, *Strength and tissue specificity of chimeric promoters derived from the octopine and mannopine synthase genes* *Plant Journal*, Vol. 7(4) (1995), pp. 661-676
	S3	Norris et al, *The intron of Arabidopsis thaliana polyubiquitin genes is conserved in location and is a quantitative determinant of chimeric gene expression* *Plant Molecular Biology*, Vol. 21(5) (1993), pp. 895-906.
	T3	Paszkowski et al, *Direct Gene Transfer to Plants* European Molecular Biology Organization Journal, Vol. 3(12), (1984), pp. 2717-2722
	U3	Reed et al., *Phosphomannose Isomerase: An efficient selectable marker for plant transformation* *In Vitro Cellular and Developmental Biology – Plant*, Vol. 37 (March-April 2001) pp. 127-132
	V3	Sander, *Transformation von Beta vulgaris L.*, (Ph.D. Thesis, University of Hannover, Germany 1994)
	W3	Schneider et al., *Adventitious Shoot Formation in a Tissue Culture Line of Sugarbeet* *Biochem. Physiol. Pflanzen.* 182, 485-490 (1987)
	X3	Sévenier et al, *High level fructan accumulation in a transgenic sugar beet* *Nature Biotechnology* 16, (September, 1998), pp. 843-846
RK	Y3	Smith, R.H. and Hood, E.E., *Agrobacterium tumefaciens Transformation of Monocotyledons* *Crop Science* 35(2), (March-April, 1995), pp. 301-309

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RK	A4	Staub, J.M. and Maliga, P., *Long regions of homologous DNA are incorporated into the tobacco plastid genome by transformation* *The Plant Cell*, Vol. 4 (January, 1992), pp. 39-45
	B4	Svab et al, *High-frequency plastid transformation in tobacco by selection for a chimeric aadA gene* *Proceedings of the National Academy of Sciences, US*, Vol. 90(3) (1993 Feb), pp. 913-917
	C4	Svab et al, *Stable transformation of plastids in higher plants* *Proceedings of the National Academy of Sciences, US*, Vol. 87(21) (1990 Nov), pp. 8526-8530
	D4	Tricoli et al, *Field Evaluation of Transgenic Squash Containing Single or Multiple Virus Coat Protein Gene Constructs for Resistance to Cucumber Mosaic Virus, Watermelon Mosaic Virus 2, and Zucchini Yellow Mosaic Virus* *Bio/technology*, Vol. 13 (December, 1995), pp. 1458-1465
	E4	Vancanneyt et al, *Construction of an intron-containing marker gene: Splicing of the intron in transgenic plants and its use in monitoring early events in Agrobacterium-mediated plant transformation* *Molecular and General Genetics*, Vol. 220(2) (1990 Jan) pp. 245-50
	F4	Zhang et al., *Genetic transformation of commercial cultivars of oat (Avena sativa L.) and barley (Hordeum vulgare L.) using in vitro shoot meristematic cultures derived from germinated seedlings* *Plant Cell Reports*, Vol. 18, (1999), pp. 959-966
	G4	Zhong et al., *The Competence of Maize Shoot Meristems for Integrative Transformation and Inherited Expression of Transgenes* *Plant Physiology*, Vol. 110, (1996), pp. 1097-1107
	H4	ATCC Accession No. 37394 [online], [retrieved on 2001-9-26], Retrieved from the Internet: <URL:http://www.atcc.org/SearchCatalogs/>
	I4	Detrez et al.*Direct Organogenesis from Petiole and Thin Cell Layer Explants in Sugar Beet Cultured In Vitro* *Journal of Experimental Botany*, Vol. 39, No. 204, (July 1988) pp. 917-926
	J4	Joersbo et al., *Analysis of mannose selection used for transformation of sugar beet* *Molecular Breeding*, Vol. 4 (1998), pp. 111-117
	K4	Ritchie et al., *In Vitro Shoot Regeneration from Callus, Leaf Axils and Petioles of Sugar Beet (Beta vulgaris L.)* *Journal of Experimental Botany*, Vol. 40, No. 211 (February 1989), pp. 277-283
	L4	Snyder et al., *Introduction of pathogen defense genes and a cytokinin biosynthesis gene into sugarbeet (Beta vulgaris L.) by Agrobacterium or particle bombardment* *Plant Cell Reports*, Vol. 18 (1999), pp. 829-834
	M4	ATCC Accession Number 53487 [online catalog detail], [retrieved on 2002-10-03]. Retrieved from the Internet: <URL: http://www.atcc.org/SearchCatalogs/
RK	N4	Snyder et al, *Genetic transformation of sugarbeet using particle bombardment and novel plant pathogen defense genes* *29th Biennial Meeting of American Society of Sugar Beet Technologists*, Phoenix, AZ (1997) pp. 48

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RK	AA	6,114,603	9/5/2000	Christou et al	800/293	435/430.1	3/27/1998

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